

E-00000C-11-0328



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ARIZONA CORPORATION COMM

UTILITY COMPLAINT FORM

Investigator: Tom Davis

Priority: Respond Within Five Days

Opinion      No. 2014 - 117068

Date: 7/16/2014

Complaint Description:      01H Billing - Smart Meter  
N/A Not Applicable

Arizona Corporation Commission

DOCKETED

JUL 17 2014

Complaint By:      First: Monnie

Last: Ramsell

Account Name:      Monnie Ramsell

DOCKETED BY

Street:

Work: (000) 000-0000

City:      Sedona

ORIGINAL

CBR:

State:      AZ      Zip: 86336

is:

Utility Company:      Arizona Public Service Company

Division:      Electric

Contact Name:

Nature of Complaint:

DOCKET # E-00000C-11-0328

ELECTRIC

Name: Monnie Ramsell

Date: 7/15/14

CityStateZip: Sedona, AZ 86336

Docket: Opening of a Generic Docket for the Investigation of Smart Meters.

DocketNo: E-00000C-11-0328

Utility: APS

Comments: DEBUNKING THE UTILITY INDUSTRY MYTH ABOUT SMART METER SAFETY: THE ANTENNA EFFECT The utility industry's argument that smart (AMR, ERT) meters are safe must be rejected, because it relies on FCC testing for radiofrequency (RF) interference, which is not a safety testing protocol, and flawed FCC radiation exposure guidelines. The FCC testing for smart meters is done in an isolated laboratory, divorced from the context in which these meters are intended to be used, connected to the wiring in a home or business. We present below compelling technical and empirical proof that, when these meters are used as intended, they cause an antenna effect, inflicting great harm to occupants inside their homes and businesses. When used as intended, smart meters that appear to be safe in the testing laboratory are lethal. 1. An RF engineer's technical report confirms that smart meters cause an antenna effect when connected to electrical distribution systems, resulting in extraordinary RF exposures that are significantly higher than those reported in isolated laboratory testing. Stop Smart Meters New York (SSMNY) hired an RF engineering firm named Isotrope "[t]o evaluate the devices in situ" and to make "a field survey of the various emissions of concern, employing an array of electronic test equipment." Isotrope concluded, among other things, that the radiated- and conducted-emissions testing of electrical meters that was performed by the FCC "does not replicate actual conditions...." By contrast, when

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Isotrope tested a meter in usage as intended, connected to a home wiring grid, "the conducted emissions from the meter at 915 MHz ISM frequencies in a residence was observed to be substantial," This confirms what we refer to as the antenna effect of smart meters, which results in emissions that far exceed those reported when meters are tested in a laboratory setting, disconnected from wiring. The Isotrope Report goes on to state that "if the 915 MHz conducted energy were to be held to the same standard as 30 MHz, the level of the 915 MHz conducted energy from the AMR meter would fail." The Isotrope report thus substantiates that smart meters cause an extraordinary RF/MW antenna effect on electrical distribution systems when they are used as intended, rather than in the isolation of a testing laboratory. See Isotrope Report: "Report on Examination of Selected Sources of Electromagnetic Fields at Selected Residences in Hastings on Hudson"

[http://stopsmartmetersny.org/images/Report\\_on\\_Examination\\_of\\_Selected\\_Sources\\_of\\_Electromagnetic\\_Fields\\_at\\_Selected\\_Residences\\_20140301.pdf](http://stopsmartmetersny.org/images/Report_on_Examination_of_Selected_Sources_of_Electromagnetic_Fields_at_Selected_Residences_20140301.pdf) 2. The smart meter antenna effect results in injury to occupants of homes and business even where the meter is installed up to 150 feet away. Many people are reporting becoming ill after smart meters, including AMR and ERT models, are installed on, in or near their homes and businesses. Reported symptoms include heart palpitations and other cardiac problems, ringing in the ears, sleep problems, anxiety, headaches, nausea, recurrence of cancer and more. These reports are too numerous and too consistent in nature to be dismissed as coincidental. Where smart meters are installed up to 150 feet away from a home or business, the onset of these symptoms among occupants is attributable to the smart meter antenna effect.

SSMNY found evidence of the antenna effect when we visited the third floor apartment of a multifamily home in upstate New York where the residents, a mother and her daughter, have become very ill since their exposure to the RF/MW conducted then radiated emissions from a smart meter installed on the outside of the ground level of the building. On one occasion when we tested the RF/MW emissions at the meter itself, they were low.

Nonetheless, our testing in a third floor bedroom confirmed the meter's antenna effect. In the bedrooms we measured levels of RF/MW emissions that exceeded the highest levels that our instruments would record, far beyond what is considered safe according to the findings in the 2012 BioInitiative Report. In the video, emissions measured zero at the meter, however, minutes later in the apartment the signal was again clearly heard and measured at high levels, disappearing when the circuit to the bedrooms was turned off. No other transmitters were plugged in on the circuit. The utility company has claimed that the meter is "non-transmitting" and no FCC identification number is visible. However, according to the meter's specifications "The kV2c meter family offers a large range of possible AMI communication technologies including RF Mesh, Cellular, Power Line Carrier, RS-232, RS-485, and Analog Phone Modem to support all of your Smart Grid applications." The video record that we made of this testing and the smart meter antenna effect at this home can be seen here: Smart Meter Blamed For Destroying Family's Health <https://www.youtube.com/watch?v=i6QU6b6rq8Q> This video record demonstrates the importance of the conducted emissions documented in the Isotrope report and reveals how smart meters can cause illness for people sleeping in bedrooms distant from the meter. Final confirmation would require replacing the smart meter with an independently sourced analog meter and re-testing. Lacking that final proof, this video provides compelling evidence that conducted RW/MW emissions from smart meters can be extremely hazardous. A full investigation by the New York State Health Department and Centers for Disease Control is warranted. \*<https://www.gedigitalenergy.com/SmartMetering/catalog/kv2c.htm> 3. Smart meters have specific identifiable pulsed clicking signals. The following video demonstrates the specific and distinct sound and RF/MW measurements of smart meters, using the identical measuring equipment that SSMNY used in the previous video. This corroborates that the signals that are audible in the prior video are attributable to the smart meter installed on the home that SSMNY visited. The Sounds of Different RF radiation Sources with a RF Analyser <https://www.youtube.com/watch?v=s99i0H-nBw4> To compare: See minute 1:38 in The Sounds of Different RF radiation Sources with a RF Analyser <https://www.youtube.com/watch?v=s99i0H-nBw4> See minute 3:57 in Smart Meter Blamed For Destroying Family's Health <https://www.youtube.com/watch?v=i6QU6b6rq8Q> 4.

Conclusion The Isotrope report's findings concerning the antenna effect caused by smart meters, and SSMNY's observations of that effect and the injury it causes, debunk attempts by the industry to claim that these meters are safe. Those attempts depend on testing meters in the isolation of an FCC laboratory, without connecting them to wiring grids, using protocols which urgently need to be updated. The utility industry and government regulators have presented no evidence that smart meters are safe. Moreover, the findings presented above confirm that these meters are unsafe despite the fact that they may appear to be operating within flawed FCC guidelines, in the isolation of the testing laboratory. They demonstrate that FCC testing needs to be updated from interference testing to health-based testing. In addition, the FCC should obtain assistance from the U.S. Environmental Protection Agency in establishing health-based standards and testing protocols. The utility

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industry and government regulators made a dangerous mistake when they invested so heavily in smart meter technology before testing their impact on human health and safety. The industry should not be permitted to inflict the consequences of that mistake on us and our families by deploying this dangerous technology in our homes and businesses, against our will. The FCC should acknowledge the inadequacy of its testing, remove these meters from the market and require utilities to replace non-analog meters with purely mechanical analog meters.

\*End of Complaint\*

### Utilities' Response:

### Investigator's Comments and Disposition:

7/16/14: Entered for the record and docketed CLOSED

\*End of Comments\*

Date Completed: 7/16/2014

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